

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

1-11. (Canceled).

12. (Previously presented) A method of determining motion compensation for an input frame, said method comprising the steps of:

providing a first motion vector MV1 between a reference frame and said input frame;

calculating a second motion vector MV2 between a first field of said input frame and a second field of said reference frame, said second motion vector MV2 being parallel to said first motion vector MV1 and different in magnitude by a factor of a predetermined ratio; and

performing a motion compensation process to said first field of said input frame to form a motion-compensated image for said first field of said input frame, using a first field of said reference frame along with said first motion vector MV1 and further using said second field of said reference frame along with said second motion vector MV2,

wherein said predetermined ratio is determined by a ratio of a set time interval T2 corresponding to the first motion vector MV1 and a set time interval T1 corresponding to the second motion vector MV2.

13. (Previously presented) A method of determining motion compensation for an input frame, said method comprising the steps of:

providing a first motion vector MV1 between a reference frame and said input frame;

calculating a second motion vector MV2 between a second field of said input frame and a first field of said reference frame, said second motion vector MV2 being parallel to said first motion vector MV1 and different in magnitude by a factor of a predetermined ratio; and

performing a motion compensation process to said second field of said input frame to form a motion-compensated image for said second field of said input frame, using a second field of said reference frame along with said first motion vector MV1 and further using said first field of said reference frame along with said second motion vector MV2.

wherein said predetermined ratio is determined by a ratio of a set time interval T2 corresponding to the first motion vector MV1 and a set time interval T1 corresponding to the second motion vector MV2.